

AMENDMENTS TO THE SPECIFICATION:

Page 1, between the title and line 5, insert the following heading:

BACKGROUND OF THE INVENTION.

Please amend the paragraph beginning at page 2, line 25, as follows:

Japanese Patent Application No. 11-211700 discloses an apparatus that uses ultrasound to detect creep damage in pipes by determining the maximum roughness of the pipe. ~~This it does by transmitting~~The apparatus transmits a sound wave into the pipe such that it passes through the pipe to a circumferentially offset receiving probe. A further probe detects the echoes of reflected waves. However this apparatus is disadvantageous because as well as requiring a source of ultrasound and detector probes, comparatively complex calibration and analysis of the output data is required.

Page 3, between lines 2 and 3, insert the following heading:

SUMMARY OF THE INVENTION.

Please amend the paragraph beginning at page 5, line 32, as follows:

Preferably, the rotatable members of the guides are connected to the detector means such that they are positioned either side of the detector and with pipe contact points along an imaginary arc having approximately the same radius as the pipe under test. In this way, when the apparatus is in use, the detector and the guides are both in contact with the surface of the pipe at different points around its circumference. It is particularly preferred that at least two of the rotatable members in the guide means are spaced apart from one another and from the detector such that the circumferential distance between (or the total span of) the detector and each ~~said~~of the rotatable members is smaller than the radius of the arc (and hence smaller than the radius of the pipe under test).

Please amend the paragraph beginning at page 7, line 18, as follows:

It will be appreciated that the invention extends to a corresponding method of measuring deformation of a pipe. Thus, viewed from another aspect, the invention provides a method of measuring the deformation of a surface of a pipe using the apparatus of the invention.

Page 7, between lines 22 and 23, insert the following heading:

BRIEF DESCRIPTION OF THE DRAWINGS.

Page 7, between lines 35 and 36, insert the following heading:

DETAILED DISCUSSION OF PREFERRED EMBODIMENTS.

Please amend the paragraph beginning at page 8, line 16, as follows:

Projecting upwards from second U-shaped section 10 is a rod 14 which passes through a hole 15 in platform ~~166~~. Around the lower portion of the rod is provided a spring 16 which biases the detector downwards and away from the platform.